

1 **IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

2 Priority Application Serial No......10/006,927
3 Priority Filing Date.....12/03/2001
4 Inventorship..... Yong Rui
5 Priority Examiner Nakhjavan, Shervin J.
6 Priority Group Art Unit 2621
7 Attorney's Docket No.MS1-885USC2
8 Title: Automatic Detection and Tracking of Multiple Individuals Using Multiple
9 Cues

10 **INFORMATION DISCLOSURE STATEMENT**

11 The citations listed are submitted in compliance with the duty of disclosure
12 defined in 37 CFR §1.56. Copies of the cited references were cited or submitted
13 with the priority application and are therefore not submitted herewith.

14 The Examiner is requested to make these citations of official record in this
15 application.

16 Respectfully Submitted,

17 Date: 1/25/05

18 By: AT-S
19 Allan T. Sponseller
20 Reg. No. 38318

Please type a plus sign (+) inside this box → +

+

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
		Application Number			
		Filing Date			
		First Named Inventor		Rui	
		Group Art Unit			
		Examiner Name			
Sheet		1		of 2	
		Attorney Docket Number		MS1-885USC2	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		S. Birchfield, "Elliptical Head Tracking Using Intensity Gradients and Color Histograms", IEEE Conference on Computer Vision and Pattern Recognition, Santa Barbara, California, pp. 232-237, June 1998.	
		M. Brandstein, and H. Silverman, "A Practical Methodology for Speech Source Localization with Microphone Arrays", Computer, Speech, and Language, 39 pages, November 1996.	
		M. Isard and A. Blake, "Condensation - conditional density propagation for visual tracking," International J. Computer Vision, 36 pages, 1998.	
		N. Jojic, M. Turk, and T. Huang, "Tracking Self-Occluding Articulated Objects in Dense Disparity Maps", IEEE International Conference on Computer Vision, Corfu, Greece, 8 pages, September 1999.	
		S.Z. Li, Q.D. Fu, L. Gu, B. Scholkopf, Y.M. Cheng, H.J. Zhang, "Kernel Machine Based Learning for Multi-View Face Detection and Pose Estimation", in Proceedings of 8th IEEE International Conference on Computer Vision. Vancouver, Canada, 6 pages, July 9-12, 2001.	
		S.Z. Li, Q.D. Fu, L. Gu, B. Scholkopf, Y.M. Cheng, H.J. Zhang, "Kernel Machine Based Learning for Multi-View Face Detection and Pose Estimation", Microsoft Research Technical Report MSR-TR-2001-07, 9 pages, January 2001.	
		Y. Rui, A. Gupta, and J. Cadiz, "Viewing Meetings Captured by an Omni-Directional Camera", Microsoft Research Technical Report MSR-TR-2000-97, 10 pages, September 2000.	
		J. Shi and C. Tomasi, "Good Features to Track", IEEE Conf. on Computer Vision and Pattern Recognition, pp. 593-600, 1994.	
		C. Stiller and J. Konrad, "Estimating Motion in Image Sequences, A tutorial on modeling and computation of 2D motion", IEEE Signal Processing Magazine, 34 pages, July 1999.	
		H. Tao, H. Sawhney, and R. Kumar, "Dynamic Layer Representation with Applications to Tracking", in Proc. IEEE conf. on Computer vision and Pattern Recognition 2000 (CVPR 2000), vol. 2, pp. 134-141, June 2000.	
		P. H. S. Torr, R. Szeliski, and P. Anandan, "An Integrated Bayesian Approach to Layer Extraction from Image Sequences", IEEE Seventh International Conference on Computer Vision, pp. 983-991, v.2, 1999.	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → +

+

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
		Application Number			
		Filing Date			
		First Named Inventor		Rui	
		Group Art Unit			
		Examiner Name			
		Attorney Docket Number		MS1-885USC2	
Sheet	2	of	2		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials [*]	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		N. Vasconcelos and A. Lippman, "Empirical Bayesian EM-based Motion Segmentation", Proc. Of IEEE conference on Computer Vision and Pattern Recognition, pp. 527-532, Puerto Rico, 1997.	
		P. Viola and M.J. Jones, "Robust Real-time Object Detection", Technical Report Series, Compaq Cambridge Research Laboratory, CXRL 2001/01, 29 pages, February 2001.	
		P. Viola and M.J. Jones, "Robust Real-time Object Detection", 2nd International Workshop on Statistical and Computational Theories of Vision - Modeling, Learning, Computing, and Sampling, Vancouver, Canada, 25 pages, July 2001.	
		H. Wang and P. Chu, "Voice Source Localization for Automatic Camera Pointing System in Videoconferencing", ICASSP '97 (1997 International Conference on Acoustics, Speech and Signal Processing), pp. 187-190, 1997.	
		C. Wren, A. Azarbayejani, T. Darrell, and A. Pentland, "Pfinder: Real-Time Tracking of the Human Body", IEEE Transactions on Pattern Analysis and Machine Intelligence, vol. 19, no. 7, pp. 780-785, July 1997.	
		D. Comaniciu, V. Ramesh, and P. Meer, "Real-Time Tracking of Non-Rigid Objects using Mean Shift", IEEE Conf. Computer Vision and Pattern Recognition, Vol. 2, pp. 142-149, 2000.	
		KAILATH; "The Divergence and Bhattacharyya Distance Measures in Signal Selection," IEEE Transactions on Communications Technology; Vol. Com-15, No. 1; February 1967; pp. 52-61.	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.